



29th Annual

FRONTIERS

**UNDERGRADUATE RESEARCH
POSTER EXHIBITION**

April 15, 2026

2:00 - 3:30 p.m. • 4:00 - 5:30 p.m.

6:00 - 7:30 p.m.

Student Union Ballroom

Schedule of Events

Poster Exhibition

Wednesday, April 15, 2026

Session 1: 2:00 p.m. – 3:30 p.m.

Session 2: 4:00 p.m. – 5:30 p.m.

Session 3: 6:00 p.m. – 7:30 p.m.

Session Welcome

Micah Heumann,

Director, Office of Undergraduate Research

Mentorship Excellence Awards

The Faculty and Graduate Student Mentorship Awards will be presented at the ***University Teaching, Advising & Mentoring Awards*** ceremony on **May 1, 2026**.

Faculty Awards

Dr. Alexander Dupuy

Assistant Professor, Materials Science and Engineering

Dr. Shareen Hertel

Professor, Political Science and Human Rights

Graduate Student Award

Cheyenne Summers

Ph.D. Candidate, Animal Science

Closing Remarks

About Frontiers in Undergraduate Research

The Frontiers Poster Exhibition is a multidisciplinary research forum showcasing undergraduate research, scholarship, and creative projects at the University of Connecticut. Frontiers 2026 is the twenty-eighth annual Frontiers event sponsored by the Office of Undergraduate Research (OUR). This year's exhibition includes 270 students presenting posters for 244 research and creative projects at the Storrs in-person exhibition. The inaugural in-person exhibition at the Waterbury campus on April 14, 2026, will showcase 32 students presenting 15 research and creative projects. 25 students will present 18 research and creative projects at the Stamford in-person exhibition on April 21, 2026. Additional projects can be viewed in the online exhibition at ugradresearch.uconn.edu/frontiers2026.

Students' projects span the disciplines and include both independent research and work pursued in collaboration with other undergraduates. The projects presented reflect the invaluable contributions of research mentors, including graduate students, postdoctoral scholars, staff, and faculty members. We hope you enjoy meeting our wonderful students and learning about their innovative projects.

About the Office of Undergraduate Research

The Office of Undergraduate Research (OUR) is a resource for students interested in enriching their undergraduate experience through participation in research, scholarship, and creative activity. OUR provides information and advising to assist students in identifying relevant opportunities, as well as several funding programs to support the students and their faculty mentors.

Many of the Frontiers presenters have received financial support for their projects from the OUR, which awarded over \$700,000 in 2023-24 in support of students' research and creative endeavors. These awards are funded by the Office of Undergraduate Research with generous support from the Office of the Provost, the Office of the Vice President for Research, the deans of the schools and colleges, and private donations from alumni, parents, and other friends of UConn and undergraduate research.

Sequential Listing of Poster Presentations

This listing of projects includes the undergraduate student authors and their faculty mentors. Please note that this is not a comprehensive listing of mentors: many projects also reflect the contributions and mentorship of dedicated graduate students, post-doctoral scholars, and research staff members.

- Session 1 presentations are listed on pages 4-15.
- Session 2 presentations are listed on pages 16-27.
- Session 3 presentations are listed on pages 28-39.
- An alphabetical listing of presenters begins on page 41.

SESSION 1 PRESENTATIONS

1. Tidewrack

Iris Yu, Fine Arts-Drawing and Painting & Physiology and Neurobiology
Advisor: Alexis Boylan, Professor, Art and Art History
Advisor: Jeanne Ciravolo, Assistant Professor in Residence, Art and Art History

2. In Search of "The Search for the Lost Husband": Returning the Aarne-Thompson-Uther Index's Tale Type 425 to a Space of Oral Tradition and Visual Representation

Emily Finch, English & IMJR: Creating and Educating for the Stage and Screen
Advisor: Darcie Dennigan, Associate Professor in Residence, English
Advisor: Gregory Semenza, Professor, English
Advisor: Sandi Carroll, Assistant Professor in Residence, Dramatic Arts

3. Exploring How Students' Enjoyment of Healthy versus Unhealthy Foods Changes at the UConn Dining Halls Compared to Other Environments

Hassan Hussain, Sociology
Advisor: Marlene Schwartz, Professor, Human Development and Family Sciences

5. Identifying the Barriers and Facilitators to Education on Lead Exposure for Immigrant Families with Young Children in Connecticut

Braydon Cretella, Nursing
Advisor: Katherine Bernier, Assistant Professor, Nursing

6. What Elementary and Middle School Students Need to Thrive: An Exploratory Analysis Through the Lens Maslow's Hierarchy of Needs

Emily Dubin, Human Development and Family Sciences

Advisor: Maria LaRusso, Associate Professor, Human Development and Family Sciences

7. Transition-Age Youth in Foster Care: A Policy and Content Analysis of Education and Support Resources by State

Lauryn Gaylord, Human Development and Family Sciences

Advisor: Preston Britner, Professor Britner, Human Development and Family Sciences

8. Assessing Socioeconomic Status and Male Caregivers on Future Psychopathy

Anisa Rafik, Psychological Sciences & Criminal Behavior

Christian Denton, Psychological Sciences

Zuleydy Torres, Psychological Sciences

Hannah van Rijnsouw, Psychological Sciences & IMJR: Criminology

Lauren Villanueva, Molecular and Cell Biology

Advisor: Jeffery Burke, Associate Professor, Psychological Sciences

9. Defining Racism and Its Impact on Black Adolescent Girls

Iva Filipovic, Psychological Sciences

Jenna Griesing, Psychological Sciences

Seth Friedeman, Molecular and Cell Biology & IMJR: Nutritional Psychology and Disordered Eating

Neena Bisconti, Psychological Sciences

Advisor: Amy Egbert, Assistant Professor, Psychological Sciences

10. The Effect of Various Parenting Practices on the Symptom Count of Eating Disorder Symptoms Over Time

Sumedha Sabbani, Psychological Sciences

Charleigh Seitzinger, Psychological Sciences

Ann Macenat, Psychological Sciences

Emily Ieronimo, Psychological Sciences & Human Development and Family Sciences

Advisor: Jeffrey Burke, Associate Professor, Psychological Sciences

11. The Relationship Between Neurocognitive Functioning, Depression, Suicidal Ideation, and Attractiveness in Athletes

Alexandria Dominique, Psychological Sciences

Advisor: Ryan Talbert, Assistant Professor, Sociology

12. Perceived vs. Objective Neighborhood Characteristics, and Sleep Quantity and Quality among U.S. Adolescents

Vangmayee Upadhyay, Allied Health Sciences

Advisor: Ryan Talbert, Assistant Professor, Sociology

13. The Neurological and Psychiatric Manifestations of Adoption and Foster Care by Race and Gender

Akeva Koulla, Biomedical Engineering

Advisor: Ryan Talbert, Assistant Professor, Sociology

14. PRISM: Priming Relationships in Syntax and Mathematics

Michelle Zhu, Secondary Mathematics Education & Mathematics

Advisor: Adrián Garcia-Sierra, Associate Professor, Speech, Language, and Hearing Sciences

Advisor: Megan Staples, Associate Professor, Curriculum and Instruction

Advisor: Erin Rizzie, Assistant Professor in Residence, Mathematics

15. Uses and Perceptions of Rubrics in English Language Arts Education

Jessica DiTommaso, Secondary English Education & English

Advisor: Catherine Little, Professor, Educational Psychology

16. A Sociohistorical Look at Connecticut Marine Debris

Hiis LaRose, Secondary History/Social Studies Education, History & Sociology

Advisor: Mars Plater, Assistant Professor, History

17. Evaluating Anti-Communism: Bias in the American News

Katerina Anikeev, Political Science & Applied Data Analysis

Advisor: Fyansia Nsilo-Swai, Research Services Librarian, Research Services

Advisor: Alexander Anievas, Associate Professor, Political Science

18. More than Mask: How South Korea Leverages Private Industry to Cultivate Global power through Beauty and Culture

Ashley Soto, Political Science

Advisor: Miles Evers, Assistant Professor, Political Science

Advisor: Virginia Hettinger, Alan R. Bennett Honors Professor, Associate Professor, Political Science

19. Thinking About U: Theorizing the Inverted-U Theory as a Function of Test Anxiety and Working Memory Capacity

Mukrim Rahman, IMJR: Behavioral and Developmental Neuroscience

Advisor: Jeffrey Pella, Assistant Professor, Psychiatry

20. Low-Frequency EEG Oscillations in Phonological Deficits: Resting-State Evidence from Developmental Dyslexia Subtypes

Laura Colonna de Lega, Biological Sciences

Advisor: Silvia Clement-Lam, Assistant Research Professor, Psychological Sciences

21. Disability Identity: Responses to Disclosure

Atyana DelValle, Psychological Sciences

Mahasin Gudaf, Psychological Sciences

Advisor: Alexandra Garr-Schultz, Assistant Professor, Psychological Sciences

22. Examining the Relationships Among Acculturation, Negative Life Events, and Adolescent Psychopathology

Naz Chaudry, Psychological Sciences

Samantha Moran, Psychological Sciences

Advisor: Jeffrey Burke, Associate Professor, Psychological Sciences

23. Gendered Disparities in the Initial Stages of the PrEP Care Cascade Among People Who Inject Drugs: A Literature Review

Heather Keane, Molecular and Cell Biology & IMJR: Health Disparities and the Development of Illness

Advisor: Michael Copenhaver, Professor, Allied Health Sciences

24. Establishing Interrater Reliability for Conversational Discourse Analysis of People with Aphasia

Emma Cleary, Speech, Language, and Hearing Sciences

Advisor: Jennifer Mozeiko, Associate Professor, Speech, Language, and Hearing Sciences

25. Investigating How Confidence Influences Musical Aptitude

Alexa Calegari, Speech, Language, and Hearing Sciences

Advisor: Erika Skoe, Professor, Speech, Language, and Hearing Sciences

26. Risks of Ototoxicity in Newly Emerging U.S. Prescribed Drugs Targeting GLP-1 Receptors Semaglutide (Ozempic) & Tirzepatide (Mounjaro), A Literature Review

Tea Tola, Physiology and Neurobiology

Advisor: Erika Skoe, Professor, Speech, Language, and Hearing Sciences

Advisor: Janet Desmarais, Lab Manager, Speech, Language, and Hearing Sciences

27. “Behind the Screen”: How Remote Court Proceedings Shape Outcomes, Fairness, and Access to Justice

Vidhisha Thakkar, Political Science & Accounting

Advisor: Kimberly Bergendahl, Associate Professor in Residence, Political Science

Advisor: Virginia Hettinger, Alan R. Bennett Honors Professor, Associate Professor, Political Science

28. Equity or Reverse Discrimination: How Competing Narratives Influence Public Support for DEI Policies

Addie Concascia, Political Science

Advisor: Jason Byers, Assistant Professor, Political Science

Advisor: Virginia Hettinger, Alan R. Bennett Honors Professor, Associate Professor, Political Science

29. Investigating the Role of Matrix Metalloproteinase 2 in Regulating Border Cell Migration in *Drosophila melanogaster*

Roma Kale, Physiology and Neurobiology & Molecular and Cell Biology

Advisor: Jianjun Sun, Professor, Physiology and Neurobiology

30. Investigating Early-life Factors Contributing to the Integration of Developmentally-specified Hippocampal Neurons

Anika Agrawal, Physiology and Neurobiology & Psychological Sciences

Advisor: Sebnem Tuncdemir, Assistant Professor, Neuroscience

31. Evaluating Endothelial-Mediated Vascular Function in Frail Older Adults: A Pilot and Exploratory Study

Anna Dietz, Physiology and Neurobiology

Advisor: Oh Sung Kwon, Assistant Professor, Kinesiology

32. Play to Win: A Randomized Controlled Trial to Assess the Effects of Play-Based Training on Upper Extremity Function in Children with Hemiplegia

Vivian London, Allied Health Sciences

Advisor: Sudha Srinivasan, Assistant Professor, Kinesiology

33. The Role of Parvalbumin-interneuron COP1 in Social Interaction Behavior in Mice

Sudiksha Gadiraju, Biological Sciences

Advisor: Xin-Ming Ma, Associate Professor, Neuroscience

34. Home Cage Pre-training Enhances Behavioral Task Performance in Head-fixed Mice

Richard Zou, Physiology and Neurobiology

Advisor: Nicholas Audette, Assistant Professor, Psychological Sciences

35. Reinforcement Rewired: A Review of Contingency Management Tech-Enabled Interfaces

Gabriel Lee, Biological Sciences

Advisor: Carla Rash, Associate Professor, Medicine

36. The Use of Myostatin Inhibition to Treat Cancer Cachexia and Muscular Atrophy: A Systematic Review

Aidan Rapuano, Molecular and Cell Biology

Advisor: Ping Zhang, Associate Professor, Molecular and Cell Biology

37. Inosine Accelerates Cancer Cell Killing by the Experimental Antifolate UCP1162R: Implications for Novel Combination Treatments

Reshma Ramesh, Physiology and Neurobiology & Psychological Sciences

Advisor: Charles Giardina, Professor, Molecular and Cell Biology

38. Development of Doxycycline-Inducible CRISPR-Interference Screening System to Identify Genes Involved in Tet2-Deficient Clonal Hematopoiesis

Nhung Phan, Molecular and Cell Biology

Advisor: Hideyuki Oguro, Assistant Professor, Cell Biology

39. The Development of a CRISPR-Based Calibrated Functional Assay for Classifying Pathogenicity of MSH2 and MSH6 Variants in Lynch Syndrome

Olivia Amodeo, Molecular and Cell Biology

Advisor: Christopher Heinen, Professor, Medicine

40. Genomic Determinants of Readthrough Transcription in Retinal Pigment Epithelium Cells During Oxidative Stress

Nora Lippai, Molecular and Cell Biology

Advisor: Leighton Core, Associate Professor, Molecular and Cell Biology

41. Isolation of the Native NPR1 Transmembrane Signaling Complex

Andrew Kim, Molecular and Cell Biology

Advisor: Steven Chou, Assistant Professor, Molecular Biology and Biophysics

42. Structural Organization of the Purkinje Cell Axon Initial Segment: Relationships with Basket Cell Pinceaux and Local Microdomain Remodeling

Shez Jakhro, Physiology and Neurobiology

Advisor: Mark Terasaki, Associate Professor, Cell Biology

Advisor: Akiko Nishiyama, Professor, Physiology and Neurobiology

44. Gut Microbiota Modulates Blackcurrant Attenuation of Inflammation and Fibrosis in Epididymal White Adipose Tissue of HFHS-Fed Male Mice

Claire Gallagher, Nutritional Sciences

Kelly Nguyen, Pathobiology

Advisor: Ji-Young Lee, Professor, Nutritional Sciences

Advisor: Young-Ki Park, Assistant Research Professor, Nutritional Sciences

45. One Health Approach to Pathogenic Leptospira Detection in Water Sources in Storrs, CT

Ellie Borton, Animal Science

Advisor: Elsie Wunder, Assistant Professor, Pathobiology and Veterinary Science

Advisor: Camila Hamond Regua Motta Reis, Assistant Research Professor, Pathobiology

46. In vitro Cell Translocation Model as a System to Investigate Host Differences during Early-stage Leptospirosis Infection

Arineemal Kaul, Molecular and Cell Biology

Advisor: Elsie Wunder, Assistant Professor, Pathobiology and Veterinary Science

47. Isolation and Identification of Soil Bacteria with Antimicrobial Activity

Madeline Scully, Molecular and Cell Biology

Advisor: Patricia Rossi, Associate Professor in Residence, Molecular and Cell Biology

Advisor: Spencer Nyholm, Professor, Molecular and Cell Biology

48. Fluorescence Detection of Protein Biomarkers for Alzheimer's Disease

Vanshika Patel, Molecular and Cell Biology

Advisor: James Rusling, Professor, Chemistry

Advisor: Barbara Mellone, Professor, Molecular and Cell Biology

49. BaTiO₃ Nanoparticles for Megavoltage Radiation Dose Enhancement

Rakshan Chadha, Molecular and Cell Biology & Statistics

Maya Ganguli, Molecular and Cell Biology

Advisor: Henry Smilowitz, Associate Professor, Cell Biology

50. The Synergic Role of Electrical and Chemical Stimulation in Wound Healing of Diabetic Patients

Laxmi Chinmaya Vobbineni, Biomedical Engineering & Molecular and Cell Biology

Advisor: Sangamesh Kumbar, Professor, College of Dentistry, University of Nebraska Medical Center

51. Controlled Microenvironment Using Semi-Permeable Polymer Nanocapsules

Luke Pratley, Molecular and Cell Biology

Advisor: Eugene Pinkhassik, Associate Professor, Chemistry

52. Development and Characterization of Antiviral-Loaded DSPC Liposomes for PRRSV

Daniyal Saleem, Physiology and Neurobiology

Advisor: Diane Burgess, Distinguished Professor, Pharmaceutical Sciences

53. The Role of Translesion Synthesis Polymerases in the Development of Resistance to 6-TG/MP in Acute Lymphoblastic Leukemia

Sarah Woytowich, Physiology and Neurobiology

Advisor: Hunmin Jung, Assistant Professor, Pharmaceutical Sciences

54. Investigating Inhibitory and Activating Compounds of Phosphoantigen-Induced, Butyrophilin-Mediated Gamma-Delta T Cell Activation

Andy Dong, Molecular and Cell Biology

Advisor: Andrew Wiemer, Professor, Pharmaceutical Sciences

55. Assessing the Town of Manchester's Compliance with PA 25-33 and MS4

Katharine Batchelar, IMJR: International Studies and Global Sustainability

Advisor: Owen Placido, Visiting Assistant Extension Educator, Department of Extension

56. Computational Modeling of DNA Damage Response Networks in High-Grade Serous Ovarian Cancer Risk: A Focus on Classic PCOS (Phenotype A) and Androgen Signaling

Charli Hughes, Computer Science & Molecular and Cell Biology

Advisor: Jennifer Jorgensen, Assistant Professor, Obstetrics and Gynecology

58. Impact of Carbamylation on Tropoelastin Structure

Benjamin Fieldsend, Biomedical Engineering

Advisor: Anna Tarakanova, Associate Professor, School of Mechanical, Aerospace, and Manufacturing Engineering

59. Purifying Potential - Optimization of Janus Base Nanoparticles in Gene Therapy

Qianyu Chen, Biomedical Engineering

Advisor: Yupeng Chen, Associate Professor, Biomedical Engineering

60. The Optimization of the Scanning and Meshing Workflow for the Creation of Personalized 3D-Printed Breast Prosthetics

Quentin Lane, Biomedical Engineering

Advisor: Liisa Kuhn, Professor, Biomedical Engineering

Advisor: Patrick Kumavor, Associate Professor in Residence, Biomedical Engineering

61. Redefining Comfort and Safety: 3D Printing in Football Padding

Isaiah Williams, Biomedical Engineering

Advisor: Liisa Kuhn, Professor, Biomedical Engineering

63. Forecasting in Time Series with The Mamba Architecture: A Linear-Time Sequence Model with Selective State Spaces

Matthew Venzie, Applied Mathematics & Statistics

Advisor: Yao Zheng, Associate Professor, Statistics

64. Applying Fuzzy Logic to Spatial Land Suitability Modeling for Finger Millet in East Africa

Katherine Patrick, Geographic Information Science

Advisor: Dan Wanyama, Assistant Professor in Residence, Geography

65. Using UHPLC-MS/MS Analysis to Detect and Quantify PFAS Contamination in Ingestible Vitamin and Supplement Tablets

Katherine Benoit, Chemistry

Mariana Doud, Allied Health Sciences

Advisor: Anthony Provas, Organics Laboratory Manager and Research Professor, Center for Environmental Sciences and Engineering

66. Identification of PFAS in Surface Samples using FTIR Analysis

Anjali Meruva, Allied Health Sciences

Supreme Kc, Chemistry

Advisor: Anthony Provas, Organics Laboratory Manager and Research Professor, Center for Environmental Sciences and Engineering

67. Carbon Nanotube Processing for Soft Actuators

Matthew Francoeur, Materials Science and Engineering

Advisor: Mihai Duduta, Assistant Professor, School of Mechanical, Aerospace, and Manufacturing Engineering

68. Silver Nanoparticle-Based Antifouling Boat Coatings

Peyton Schneider, Chemistry

Advisor: Steven Suib, Distinguished Professor, Chemistry

69. Modulation of Per- and Polyfluoroalkyl Substances (PFAS) Toxicity to Soil Protists via Co-Exposure with Microplastics and the Broader Societal Impacts of Microplastics

Mehr Chhatre, Chemical Engineering

Advisor: Leslie Shor, Vice Provost and Dean, Graduate Education

Advisor: Carol Atkinson-Palombo, Professor, Geography

Advisor: Daniel Gage, Professor, Molecular and Cell Biology

70. Window Materials for Aerogel RICH Detector at J-PARC

Owen Finch, Physics & Applied Mathematics

Michael Frank, Physics

Advisor: Kyungseon Joo, Professor, Physics

71. Photon Yield Optimization for the MARQ RICH Detector in the J-PARC E50 Experiment

Michael Frank, Physics

Owen Finch, Physics & Applied Mathematics

Advisor: Kyungseon Joo, Professor, Physics

72. ITAC 2024-2025 Assessments Recommendation Analysis

Brian Chan, Electrical Engineering

Advisor: Liang Zhang, Professor, Electrical and Computer Engineering

73. Physics-Informed Photovoltaic Power Loss Prediction from UAV Thermal Imagery

Nicholas Bailey, Management and Engineering for Manufacturing & Mathematics

Advisor: Liang Zhang, Professor, Electrical and Computer Engineering

74. Best Method to Find Air Compressor Leak Rate

Carter Morissette, Statistical Data Science

Advisor: Liang Zhang, Professor, Electrical and Computer Engineering

75. The Pecking Order: Comparing the Endangered Red Cockaded Woodpecker Genome to Other Well-performing Bird Species to Improve Conservation Efforts

Anastasia Serating, Plant Science

Peyton Durant, Molecular and Cell Biology

Deirdre McCrohan, Biological Sciences

Jenna Kent, Ecology and Evolutionary Biology

Advisor: Jill Wegrzyn, Associate Professor, Ecology and Evolutionary Biology

Advisor: Brandon Lind, Postdoctoral Research Associate, Ecology and Evolutionary Biology

76. Green Small Giants

Madhumita Muralidharan, Molecular and Cell Biology

Advisor: Hannah Larson, PhD Student, Ecology and Evolutionary biology

77. Ecoregional Species Distribution Models Outperform Range-Wide Approaches and Identify Climate Refugia for a Montane Mammal, the American Pika (*Ochotona Princeps*)

Gage Rovelli, Biological Sciences

Advisor: Mark Urban, Professor, Ecology and Evolutionary Biology

78. Fencing Reduced Black-crowned Night Heron Predation on Common Tern Eggs

Emily Winslow, Ecology and Evolutionary Biology

Advisor: Margaret Rubega, Professor, Ecology and Evolutionary Biology

79. Stochastic Methods for Measuring Circumbinary Accretion Disk Luminosity

Micah Banschick, Physics & Mathematics

Advisor: Jonathan Trump, Associate Professor, Physics

80. Porcine Oviductal Extracellular Vesicles Enhance Mouse Sperm Function

Stephanie Gilroy, Animal Science

Advisor: Maria Gracia Gervasi, Assistant Professor, Animal Science

81. Characterization of Phospholipase C $\delta 4$ in Bovine Sperm Capacitation

Makeda Staton, Animal Science

Advisor: Maria Gracia Gervasi, Assistant Professor, Animal Science

82. Dissecting the Composition of the Liver and Colon Metabolome in Colitis Mouse Models Fed with Cheese

Chien-Yi Yeh, Animal Science

Advisor: Breno Fragomeni, Associate Professor, Animal Science

Advisor: Mary Anne Roshni Amalaradjou, Associate Professor, Animal Science

83. CartograPlant: Bridging Genomic, Phenotypic, and Environmental Data to Advance Plant Resilience and Eco-evolutionary Insight

Huyen Trang Nguyen, Chemistry

Phoebe Zhou, Allied Health Sciences

Advisor: Jill Wegrzyn, Associate Professor, Ecology and Evolutionary Biology

SESSION 2 PRESENTATIONS

1. CT Unscene: A Documentary on the DIY Music Scene in Connecticut

Evan Elmore, Digital Media and Design

Advisor: Justin Liberman, Assistant Professor, Digital Media and Design

2. Exploring the Role of Hispanic-Serving Institutions in Ethnic Racial Identity Development: Insight from Latine Undergraduates at One Institution

Anytra Culbreath-Evans, Sociology

Advisor: Kevin Ferreira van Leer, Assistant Professor, Human Development and Family Sciences

3. How I See Her, How We See Us: Exploring Black Girls' Understanding of Girlhood Through Mother-Daughter Dyads

Taylor Bryan, Psychological Sciences & Human Development and Family Sciences

Advisor: Marketa Burnett, Assistant Professor, Human Development and Family Sciences

4. Exploring the Relationship between Sleep and Externalizing Behaviors in Preschool-Aged Children

Isabela Mejias, Nursing

Advisor: Eileen Condon, Assistant Professor, Nursing

5. Caregiver's Perspectives on Reducing Negative SRH Outcomes for Black Female Adolescents

Ira Sunderraj, Allied Health Sciences

Advisor: Christina Ross, Assistant Professor, Nursing

6. Exploring Multilevel Determinants of PrEP Modality Preferences: Preliminary Findings from a Systematic Review

Raquel Teper, Molecular and Cell Biology

Advisor: Pablo Kokay Valente, Assistant Professor, Allied Health Sciences

7. Understanding and Addressing Impacts of Legislation Banning Gender Affirming Mental Health Care in the U.S.: A Pilot Study of Mental Health Professionals

Ben Berthiaume, Women's, Gender, and Sexuality Studies & Sociology

Eliam Marshall, Social Work

Advisor: Meg Paceley, Associate Professor, Social Work

8. Who's Playing, Who's Paying, and Who's Using It: A Game-Theoretic Approach to Mobile Health Platform Design for Gen X Chronic Disease Management

Hunter Victorio, Management

Karlisse Wills, Marketing

Ryan Killeen, Management and Engineering for Manufacturing

Advisor: William Ryan, Assistant Professor in Residence, Marketing

Advisor: Joseph Pancras, Associate Professor, Marketing

9. The Antecedents, Consequences, and Prevention of Gender Harassment

Sanjana Sitaram, Healthcare Management and Insurance Studies

Advisor: Madison Malcore, PhD Candidate, Industrial and Organizational Psychology

Advisor: Vicki Magley, Professor, Psychological Sciences

10. A Non-Inferiority Trial Comparing Synchronous and Asynchronous Remotely-Delivered Lifestyle Interventions

Megan Washburn, Psychological Sciences

Elijah Edwards, Psychology & Sociology

Advisor: Sherry Pagoto, Professor, Allied Health Sciences

11. The Economics and Climate Change Drivers of the Decline in Connecticut's Clam Sector

Angela Zhang, Economics & Economics of Sustainable Development and Management

Advisor: Rigoberto Lopez, Professor, Agricultural and Resource Economics

Advisor: Metin Cosgel, Professor, Economics

12. The Relationship between Government Bailouts and Risk-Taking Behavior in Banks: A Case Study from the Great Financial Crisis of 2008-09

Derek Cameron, Economics

Advisor: Fan Yang, Associate Professor, Finance

13. When Whiteness is the Aesthetic: The Dominance of Racial Capital in the Creator Economy

Anastasia Charles, Political Science

Advisor: Evelyn Simien, Professor, Political Science

14. A Border of Broken Promises: The Unfulfilled Commitments of the CRC for Migrant Children at the U.S. Southern Border

Eva Passer, Political Science & Human Rights

Advisor: Kimberly Bergendahl, Associate Professor in Residence, Political Science

Advisor: Kristin Kelly, Associate Professor, Political Science

Advisor: Virginia Hettinger, Alan R. Bennett Honors Professor, Associate Professor, Political Science

15. The Role of Hybrid Governance in Shaping Gentrification Trajectories: Evidence From Downtown Flushing, New York

Yaeyoung Min, Political Science

Advisor: Meina Cai, Associate Professor, Political Science

16. From Promise to Practice: A Qualitative Analysis of the De Jure-De Facto Gap in the Individuals with Disabilities Education Act

Alyssa Piccoli, Political Science & Sociology

Advisor: Shareen Hertel, Professor, Political Science & Human Rights

Advisor: Virginia Hettinger, Alan R. Bennett Honors Professor, Associate Professor, Political Science

17. Cannabidiol (CBD) Does Not Reduce Self- Reported Anxiety Despite Physiological Effects

Mia Tzikas, Psychological Sciences

Noha Myreen, Molecular and Cell Biology

Advisor: Robert Astur, Associate Professor, Psychological Sciences

18. Negative Messaging for Women of Color in the Workplace: Impacts on Social Anxiety & Collective Identity Coherence

Ally Padilla, Psychological Sciences

Advisor: Alexandra Garr-Schultz, Assistant Professor, Psychological Sciences

19. Anxiety, Depression Comorbidity and Internalized Stigma: Associations with Quality of Life

Canan Kumi, Psychological Sciences & Economics

Advisor: Diane Quinn, Professor, Psychological Sciences

20. Psychopathology and Physical Pain in Youth: Bidirectional and Predictive Associations

Alexsia Newman, IMJR: Developmental Neuroscience & Spanish

Advisor: Jonas Miller, Assistant Professor, Psychological Sciences

21. Mapping Inequity: How Food Access and Rurality Shape Gastrointestinal Cancer Risk Across US Counties

Ved Bathula, Molecular and Cell Biology & Pathobiology

Eshita Mathur, Molecular and Cell Biology

Eashwar Krishna, Molecular and Cell Biology & Sociology

Advisor: Thomas Abbott, Associate Professor in Residence, Molecular and Cell Biology

22. How Learning Goals Can Shape Information Graphic Content

Bianca Hriscu, Linguistics-Psychology & Speech, Language, and Hearing Sciences

Advisor: Derek Houston, Professor, Speech, Language, and Hearing Sciences

Advisor: Torri Ann Woodruff-Gautherin, Research Scientist, Speech, Language, and Hearing Sciences

23. Linguistic Style Markers as Risk Factors for Anxiety Contagion in Anxious Adolescents

Samantha Cipolla, Psychological Sciences

Advisor: Kimberli Treadwell, Associate Professor, Psychological Sciences

24. A Network Science Approach to Visual Word Recognition

William Haddad, Cognitive Science

Advisor: James Magnuson, Professor, Psychological Sciences

25. Assessment of Combining Fluoxetine with the DA Transport Inhibitor GBR 12909 in Reversing the Behavioral Effects of Tetrabenazine on the Fixed Ratio 5/Choice Task

Sofia Papanikolaou, Physiology and Neurobiology

Advisor: John Salamone, Distinguished Professor, Psychological Sciences

26. Evaluation of Antidepressants for Attenuation of Effort-Related Motivational Dysfunction in Male and Female Rats: The Importance of Dopamine

Amna Besirevic, Psychological Sciences

Advisor: John Salamone, Distinguished Professor, Psychological Sciences

27. Observational Learning in Rats: Impact of Observer Social Dominance

Srinitya Kamma, Physiology and Neurobiology & Psychological Sciences

Brielle Pierre Philippe, Psychological Sciences

Advisor: Etan Markus, Professor, Psychological Sciences

28. When is Dinner? Subjective Time Estimation in Rats

Alissa Christensen, Psychological Sciences & English

Abi Sadinsky, Psychological Sciences

Gianna Lauretano, Physiology and Neurobiology

Brielle Pierre Philippe, Psychological Sciences & IMJR: Neuroscience of Health and Behavior

Srinitya Kamma, Physiology and Neurobiology & Psychological Sciences

Advisor: Etan Markus, Professor, Psychological Sciences

29. Upper Extremity Use During Play-Based Interventions for Children with Hemiplegia

Chevintha Edirisinghe, Physiology and Neurobiology

Katie Nguyen, Physiology and Neurobiology

Advisor: Sudha Srinivasan, Assistant Professor, Kinesiology

30. Assessing Fidelity of Intervention Delivery in a Randomized Controlled Trial Comparing Two Play-Based Interventions to Promote Upper Extremity Function in Children with Hemiplegia

Preeti Baiju, Psychological Sciences

Advisor: Sudha Srinivasan, Assistant Professor, Kinesiology

31. Temporal Sensitivity of Neurons in the Primary Visual Cortex of an Awake Rabbit

Angel Gupta, Physiology and Neurobiology

Advisor: Yulia Bereshpolova, Assistant Research Professor, Psychological Sciences

32. Evaluation of Shuttle-Assisted Insertion of a Flexible Polymer Neural Probe into an Agarose Brain Phantom

Sahnavi Rao Palimar, Physiology and Neurobiology

Advisor: Yulia Bereshpolova, Assistant Research Professor, Psychological Sciences

33. Cellular Mechanisms of Orientation Sensitivity in Rabbit Visual Cortex during Alert and Nonalert Brain States

Anshika Srivastava, Molecular and Cell Biology & Cognitive Science

Advisor: Yulia Bereshpolova, Assistant Research Professor, Psychological Sciences

34. A Window Into the Brain: Understanding Substance Use Disorders Through fMR

Pam Win, Psychological Sciences

Advisor: Nabin Koirala, Facility Scientist, Center for Open Research Resources and Equipment

35. Transcranial Direct Current Stimulation (tDCS): A Non-Invasive Approach to Modulate Brain Activity

Joel Agyemang, Allied Health Sciences

Kaitlyn Vitucci, Psychological Sciences

Advisor: Nabin Koirala, Facility Scientist, Center for Open Research Resources and Equipment

36. Cortical Dynamics of Speech Motor Control in Laryngeal Dystonia: An Electroencephalographic Investigation

Andre Ohanyan, Physiology and Neurobiology & Philosophy

Advisor: Nabin Koirala, Facility Scientist, Center for Open Research Resources and Equipment

37. Effects of Exogenous Ketone Body Supplementation on Fat Body metabolites in Drosophila

Michael Romero, Physiology and Neurobiology

Advisor: Geoffrey Tanner, Associate Professor in Residence, Physiology and Neurobiology

38. Topographical Mapping of Postnatal Neuron Progenitors through Ephs and Ephrins

Daniel Momoh-Oare, Physiology and Neurobiology

Advisor: Joanne Conover, Professor, Physiology and Neurobiology

39. Mouse Models of Ependymal Organization: Spatiotemporal Control of Neural Stem Cell Fate in the Developing Ventricular–Subventricular Zone

Grace Jos, Biomedical Engineering & Mathematics

Advisor: Joanne Conover, Professor, Physiology and Neurobiology

40. Expanding Intron Classification: Insights into Splice Site Variation and Evolution

Ava Anderson, Molecular and Cell Biology & Mathematics/Statistics

Advisor: Rahul Kanadia, Associate Professor, Physiology and Neurobiology

41. RNA-binding Proteins Contribute to the Pathogenesis of Muscular Diseases in Drosophila.

Kimberly Cabello, Molecular and Cell Biology

Advisor: Jianzhong Yu, Associate Professor, Physiology and Neurobiology

42. Role of CD13 in Thioglycolate Elicited Peritoneal Macrophage Fusion and Multinucleated Giant Cell Formation

Nikhil Thimma, Physiology and Neurobiology

Advisor: Mallika Ghosh, Assistant Professor, Cell Biology

43. Does Pre-irradiation Increase BaTiO₃ Nanoparticle Uptake in a Murine Pancreatic Adenocarcinoma Model?

Melinda Frost, Physiology and Neurobiology

Rakshan Chadha, Molecular and Cell Biology & Statistics

Advisor: Henry Smilowitz, Associate Professor, Cell Biology

44. An In Vitro Study of Clonal Hematopoiesis–Associated Mutations

Theodhora Sumbulla, Biological Sciences

Advisor: Hideyuki Oguro, Assistant Professor, Cell Biology

45. Examining the Effects of a Single Nucleotide Polymorphism in the PPCDC Gene on Zinc Homeostasis

Zach Conrad, Molecular and Cell Biology

Advisor: Sangyong Choi, Assistant Professor, Nutritional Sciences

46. Zinc Transporter Responses to Zinc Availability in Intestinal Organoid Models

Lori Huang, Nutritional Sciences

Advisor: Sangyong Choi, Assistant Professor, Nutritional Sciences

47. Effects of APOE Genotype-Dependent Astrocyte Conditioned Media on Differentiated SH-SY5Y Neuronal Cells

Zayan Islam, Structural Biology and Biophysics

Advisor: Nathan Alder, Professor, Molecular and Cell Biology

48. Investigating the Role of the Fascia in the Development of Fibrodysplasia ossificans progressiva (FOP)

Liv Nevo, Molecular and Cell Biology

Advisor: David Goldhamer, Professor, Molecular and Cell Biology

49. Antimicrobial Defense of Hawaiian Bobtail Squid Eggs by Symbiotic Bacteria

Hailey DeWalt, Molecular and Cell Biology

Advisor: Spencer Nyholm, Professor, Molecular and Cell Biology

50. Localization of Nuclear and Cytoskeletal Components during DNA Damage Induced Apoptosis

Almaas Ghafoor, Molecular and Cell Biology

Advisor: Kenneth Campellone, Professor, Molecular and Cell Biology

51. Investigating the Relationship of Active Polo Kinase Localization and B Chromosome Drive during Female Meiosis

Abigail Goldhamer, Molecular and Cell Biology

Advisor: Stacey Hanlon, Assistant Professor, Molecular and Cell Biology

52. Monitoring Maintenance and Hallmarks of Cell-Stage Transitions During Long-Term Induction of Cell Cycle Arrest

Charley Damico, Molecular and Cell Biology

Advisor: Leighton Core, Associate Professor, Molecular and Cell Biology

53. Exploring *Rossellomorea* spp. as a Source for Novel Antibiotics

Akshitha Chaganti, Molecular and Cell Biology

Advisor: Patricia Rossi, Associate Professor in Residence, Molecular and Cell Biology

Advisor: Spencer Nyholm, Professor, Molecular and Cell Biology

54. Influence of Membrane Composition on the Structural Dynamics and Ligand Binding Capabilities of the 5-HT_{2A} Receptor.

Muhammad Faisal, Molecular and Cell Biology

Advisor: Eric May, Professor, Molecular and Cell Biology

55. Beyond Local Sequence: PPI and Kinase Features Enhance Multi-PTM Site Prediction

Justin Li, Mathematics-Statistics

Advisor: Ji Yu, Associate Professor, Genetics and Genome Sciences

56. Leptospirosis Reservoir Surveillance: The Role of Deer in the Environmental Transmission of Pathogenic *Leptospira*

Athena Brown, Physiology and Neurobiology

Advisor: Elsie Wunder, Assistant Professor, Pathobiology and Veterinary Science

57. Pathogenic *Leptospira* Adherence to Endothelial Cells: A Comparison between Different Hosts Based on Outcome of Disease

Imaan Masood, Molecular and Cell Biology

Advisor: Elsie Wunder, Assistant Professor, Pathobiology and Veterinary Science

58. Recovery of *Leptospira* in Short- and Medium-Term Cryopreservation Using Different Dimethyl Sulfoxide Concentrations in EMEM and EMJH media

Suri Nguyen, Pathobiology

Advisor: Elsie Wunder, Assistant Professor, Pathobiology and Veterinary Science

Advisor: Camila Hamond Regua Motta Reis, Assistant Research Professor, Pathobiology

59. Investigating Immune Characteristics of a Vaccine Candidate against Two Tickborne Bandaviruses

Chris Andrei Abarientos, Pathobiology & Sociology

Advisor: Paulo Verardi, Professor, Pathobiology and Veterinary Science

60. Herbivory of *Phragmites australis* Along a Salinity Gradient in Connecticut Wetlands

Sydney Kolz, Environmental Sciences & Ecology and Evolutionary Biology

Advisor: Chris Elphick, Professor, Ecology and Evolutionary Biology

61. Water Parameter and Crustacean Community Changes in Norwalk Harbor

Amanda Stowe, Environmental Sciences

Advisor: Beth Lawrence, Associate Professor, Natural Resources and the Environment

62. Unfolding the Capniidae of Connecticut

William Tangredi, Ecology and Evolutionary Biology

Advisor: David Wagner, Professor, Ecology and Evolutionary Biology

Advisor: Katrina Menard, Professional Administrator, Ecology and Evolutionary Biology

63. A Comparative Genomic Analysis of North American Canines

Alan Rodger, Ecology and Evolutionary Biology & Anthropology

Advisor: Jill Wegrzyn, Associate Professor, Ecology and Evolutionary Biology

64. Enhancing Scalability through a Computationally Efficient Model for Single-Cell Multiomics Data

Aya Amoudi, Biomedical Engineering

Advisor: Dongyuan Song, Assistant Professor, Genetics and Genome Sciences

65. Evaluating the Effects of AI-Driven Interfaces on User Experience

Samuel Chichester, Computer Science

Advisor: Lina Kloub, Assistant Professor in Residence, School of Computing

66. Multiple Imputation by Chained Equations (MICE) vs. Simpler Approaches: A Simulation Study on Missing Data Using NHANES

Vlad Lagutin, Statistical Data Science

Advisor: Sana Gupta, PhD student, Statistics

67. Multiparameter Analysis of Timelapse Imaging Reveals the Kinetic Landscape of Clonal Expansion and Differentiation in Megakaryocytic Erythroid Progenitors

Aleck McNeil, Molecular and Cell Biology

Abeer Dhillon, Molecular and Cell Biology

Advisor: Vanessa Scanlon, Assistant Professor, Center for Regenerative Medicine and Skeletal Biology

68. In situ Mechanical Testing and Analysis of Inorganic and Organic Thin Films

Rahul Manna, Mechanical Engineering & Statistical Data Science

Advisor: Kyungjin Kim, Assistant Professor, School of Mechanical, Aerospace, and Manufacturing Engineering

69. Structure and Mechanical Behavior of Novel Ternary Cu-Based Intermetallic Compounds

Wyeth Haddock, Materials Science and Engineering

Advisor: Seok-Woo Lee, Associate Professor, Materials Science and Engineering

70. Synthesis of Air Stable Molecular Qubits

Noen Jian, Chemistry

Advisor: Tomoyasu Mani, Associate Professor, Chemistry

71. Preparation and *In Vitro* Evaluation of *In Situ* Forming Implants

Anishi Kalaria, Physiology and Neurobiology

Advisor: Diane Burgess, Distinguished Professor, Pharmaceutical Sciences

72. Impact of Macrophages on the Dissolution of Long-acting Injectable Suspension Prodrugs

Melissa Sabatella, Physiology and Neurobiology & Molecular and Cell Biology
Advisor: Diane Burgess, Distinguished Professor, Pharmaceutical Sciences

73. The Effects of Ketamine and (2R,6R)-Hydroxynorketamine on Opioid Seeking Behavior

Kayla Barca, Doctor of Pharmacy
Advisor: Gregory Sartor, Associate Professor, Pharmaceutical Sciences

74. Assessing the Use of Fondaparinux for Anticoagulation in Mechanical Heart Valve Patients

Matthew Habashy, Physiology and Neurobiology
Advisor: Youssef Bessada, Assistant Clinical Professor, Pharmacy

75. Evaluating Mechanical Properties of Hydroxyapatite Through Zn, Cu, and MgO Doping

Manal Amrani, Cognitive Science
Advisor: Steven Suib, Distinguished Professor, Chemistry

76. Nucleic Acid Nanocapsules as a Platform for Next-Generation Vaccine Delivery

Varada Konappanavar, Molecular and Cell Biology
Advisor: Jessica Rouge, Associate Professor, Chemistry

77. Lewis Acid-Catalyzed Chemoselectivity Controlled N-Alkylation and C-Alkylation of Anilines Using Vinyl Arenes

Kati Kwiatek, Physiology and Neurobiology
Advisor: Kerry Gilmore, Assistant Professor, Chemistry

78. Synthesis of Fungal Pigments for Sustainable Dyes

Rowan Solomon, Chemistry
Advisor: Michael Kienzler, Assistant Professor, Chemistry

79. Reconciling Dynamic and Structural Scattering for Charged Nanoassemblies

Jacob Leonardo, Chemical Engineering
Advisor: Mu-Ping Nieh, Professor, Chemical and Biomolecular Engineering

80. Computational Investigation of Molecular Qubits Based on Spin Correlated Radical Pairs

Arkyn Yu, Mathematics-Physics

Advisor: Tomoyasu Mani, Associate Professor, Chemistry

81. Making the Invisible Visible: Observing Subatomic Particles with a Cloud Chamber

Pragyan Yadav, Physics & Computer Science

Jason Muroski, Mechanical Engineering

Advisor: Simone Colombo, Assistant Professor, Physics

82. Thermodynamic Modeling and Analysis of a Waste Heat Recovery Process for a Solid Oxide Fuel Cell Stack Array using Thermoelectric Generating Sheaths Submerged in Water, A Combined-cycle Gas Turbine, and Organic Rankine cycles (SOFC-TG-CCGT-ORC)

Ava Tobón, Chemical Engineering

Advisor: Burcu Beykal, Assistant Professor, Chemical and Biomolecular Engineering

83. Optimizing Ethylene Cracking using Symbolic Regression

Agronil Das, Computer Science & Cognitive Science

Advisor: Burcu Beykal, Assistant Professor, Chemical and Biomolecular Engineering

SESSION 3 PRESENTATIONS

1. Gloria Al Bravo Pueblo: Venezuelan Choral Compositional Practices and Musical Nationalism in the 20th Century

Noah Medina-Pinango, Music

Advisor: Daniel Goldberg, Assistant Professor in Residence, Music

2. Cities Built on Exclusion

Margaret Singer, Environmental Studies

Andrei Abarientos, Pathobiology & Sociology

Advisor: Simon Yamawaki Shachter, Assistant Professor, Sociology

3. Latina's Political Identity, Activism, and Communities of Care

Annabel De La Cruz, History

Advisor: Melisa Argañaraz Gomez, Assistant Professor in Residence, Urban and Community Studies

4. Teacher Perceptions of Student Profiles Indicating Potential Need for Emotional Disturbance (ED) Services

Alana Tagliabue, Special Education

Advisor: Catherine Little, Professor, Educational Psychology

5. Examining Teachers' Self Efficacy Changes After A Sexual and Reproductive Health Education Workshop

Sugita Mahendarkar, Physiology and Neurobiology & IMJR: Reproductive Health and Healthcare Systems

Advisor: Sara Stifano, Associate Professor in Residence, Communication

6. Foster Care to Campus Care

Charisma Farrington, Psychological Sciences

Advisor: Eric Rice, Professor, Music

7. Higher Education in Prison in Connecticut: An Overview of Experiences, Constraints, and Institutional Politics

Josephine Burke, Political Science

Advisor: Sandy Grande, Professor, Political Science & Native American and Indigenous Studies

8. Mothering in a Racialized World: Exploring the Impact on Black Mother-Daughter Relationships

Kayanna Clarke, Human Development and Family Sciences & Psychological Sciences

Advisor: Marketa Burnett, Assistant Professor, Human Development and Family Sciences

9. The Role of Community Resources in Immigrant Family Well-being: A Qualitative Exploration of Immigrant Parents with Young Children in Two States

Julia Lucas, Exploratory

Advisor: Kevin Ferreira van Leer, Assistant Professor, Human Development and Family Sciences

10. The Intersection Between Restrictive Immigration Policies and Wellbeing -- How Healthcare Coverage Gaps Among Immigrant Families in Connecticut Cause Disproportionate Disadvantages for the Immigrant Population

Victoria Muccio, Human Development and Family Sciences & Spanish

Advisor: Terry Berthelot, Associate Professor in Residence, Human Development and Family Sciences

Advisor: Miguel Gomes, Distinguished Professor, Literatures, Cultures, and Languages

11. Exploring How Social Movements Influence the Right to Education for Undocumented Students in the United States

Bridget Quiroga, Political Science & Human Rights

Advisor: Shareen Hertel, Professor, Political Science & Human Rights

Advisor: Virginia Hettinger, Alan R. Bennett Honors Professor, Associate Professor, Political Science

12. Into the Mainstream: How White Nationalism Has Been Disseminated Online and Legitimated in the United States at Large

Shannon O'Connor, Political Science & Human Rights

Advisor: Fred Lee, Associate Professor, Political Science

Advisor: Virginia Hettinger, Alan R. Bennett Honors Professor, Associate Professor, Political Science

13. Policing the Bench: Why State Legislatures Target Judicial Ethics Commissions

Emily Grayson, Political Science

Advisor: Virginia Hettinger, Alan R. Bennett Honors Professor, Associate Professor, Political Science

14. What Shapes Youth Climate Engagement? Evaluating the Impact of Climate Change Education in Higher Ed on Youth Climate Advocacy

Emma Dutil, Political Science & Environmental Studies

Advisor: Oksan Bayulgen, Professor, Political Science

Advisor: Virginia Hettinger, Alan R. Bennett Honors Professor, Associate Professor, Political Science

15. Evaluating Substance Misuse/Use Prevention Impact: Connecticut Healthy Campus Initiative

Sage Reinhardt, Physiology and Neurobiology

Advisor: Megan O'Grady, Associate Professor, Public Health Sciences

Advisor: Marsha Murray, Clinical Research Associate, Public Health Sciences

16. A Volunteer-Facilitated Intensive Care Unit (ICU) Diary Program- A Pilot Study

Grace Gewirtz, Physiology and Neurobiology & Psychological Sciences

Advisor: Crystal Park, Distinguished Professor, Psychological Sciences

17. The Unseen Impact: Community Perceptions and Responses to Rural Maternal Healthcare Challenges in Willimantic, CT

Bryce Turner, Anthropology & Molecular and Cell Biology

Advisor: Sarah Williams, Assistant Professor, Anthropology

18. Improving Education about Health Assessment of the Neurodivergent Pediatric Population

Lauren Canniff, Nursing

Advisor: Carrie Eaton, Associate Clinical Professor, Nursing

Advisor: Leslie Lapointe, Clinical instructor, Nursing

19. A Historical Examination of Pregnancy Criminalization and Maternal Care-Seeking Within a Reproductive Justice Framework

Julia Pupriqi, Nursing

Advisor: Sharon Casavant, Assistant Professor, Nursing

Advisor: Carrie Eaton, Associate Clinical Professor, Nursing

20. A Systematic Review of Opioid Prevention Interventions and Their Effects on Overdose Education and Linkage to Care

Skylar McCall, Molecular and Cell Biology

Advisor: Safaet Sujan, Md., Allied Health Sciences

21. A Comprehensive Electronic Medical Record Review to Understand Deprescribing Following Lifestyle Change

Samveda Menon, Molecular and Cell Biology & Pathobiology

Advisor: Kara Staffier, Director of Research Operations, American College of Lifestyle Medicine

Advisor: Helen Wu, Professor, Psychiatry

22. Social and Emotional Support as an Independent Predictor of Food Insecurity: Findings from the 2024 BRFSS

Eashwar Krishna, Sociology & Molecular and Cellular Biology

Neha Shanavas, Molecular and Cell Biology & IMJR: Health Policy Informatics

Ahan Kothapeta, Molecular and Cell Biology

Advisor: Ryan Talbert, Assistant Professor, Sociology

23. Childhood Sexual Violence Impact on Adult Physical and Mental Health Outcomes

Dehjah Drye, Diagnostic Genetic Sciences

Advisor: Ryan Talbert, Assistant Professor, Sociology

24. Effects of Narrative Framing on Alcohol-Seeking Behavior

Finn McGinn, Computer Science

Kaitlyn Vitucci, Psychological Sciences

Advisor: Robert Astur, Associate Professor, Psychological Sciences

25. CBD Does Not Affect Extinction or Reinstatement of Fear in Socially Anxious Young Adults

Sarah Franzen, Pathobiology

Gabriella Harmon, Physiology and Neurobiology

Advisor: Robert Astur, Associate Professor, Psychological Sciences

26. EEG Mu Rhythm as a Neural Marker for Social Learning

Michelle Jimenez, Psychological Sciences & Philosophy

Advisor: Kimberly Cuevas, Associate Professor, Psychological Sciences

27. Early Neural Mirroring at 6- to 9-Weeks as a Predictor of Later Imitation Abilities

Faith Zhao, Psychological Sciences

Advisor: Kimberly Cuevas, Associate Professor, Psychological Sciences

28. Contributions of Anxiety Sensitivity Subscales to Generalized Anxiety and Problem-Talk in Adolescence

Emma Ronaghan, Physiology and Neurobiology & Psychological Sciences

Advisor: Kimberli Treadwell, Associate Professor, Psychological Sciences

29. Natural Language Sampling in Minimally Speaking Autistic Youth and Caregivers: Activities and Receptive-Expressive Language

Briana Ashton, Speech, Language, and Hearing Sciences

Caileigh Sweeney, Speech, Language, and Hearing Sciences

Advisor: Lindsay Butler, Assistant Professor, Speech, Language, and Hearing Sciences

30. Changes in Alpha and Beta Power Levels with Spatial Location of Background Sounds

Sarah Cole, Physiology and Neurobiology & Psychological Sciences

Advisor: Heather Read, Professor, Psychological Sciences

31. Background Sound Variability Shapes Alpha and Beta Responses During Speech-in-Noise Task Performance (-9 dB SNR)

Sanjitha Sonti, Physiology and Neurobiology

Advisor: Heather Read, Professor, Psychological Sciences

32. Rolling with Emotion: Emotional Engagement in Children with Hemiplegic Cerebral Palsy in Two Play-based Interventions

Sara Yumiseba, Physiology and Neurobiology

Advisor: Sudha Srinivasan, Assistant Professor, Kinesiology

33. Racial, Ethnic, and Socioeconomic Disparities in Acne Management In An Urban Pediatric Primary Care Clinic: A Retrospective Cohort Study

Natania Muriel, Molecular and Cell Biology

Advisor: Elizabeth Kline, Associate Professor in Residence, Molecular and Cell Biology

Advisor: Sharon Smith, Professor, Pediatrics

34. Accessing the Utility of Urinalyses for Adolescents Presenting to the ED with Isolated Testicular Pain

Nikhil Thimma, Physiology and Neurobiology

Advisor: Elizabeth Kline, Associate Professor in Residence, Molecular and Cell Biology

Advisor: Sharon Smith, Professor, Pediatrics

35. Racial Disparities in Percutaneous Coronary Intervention Outcomes Following Passage of the Affordable Care Act in Myocardial Infarction Patients

Mannat Kadian, Molecular and Cell Biology

Advisor: Michael Nanna, Assistant Professor, Cardiovascular Medicine, Yale School of Medicine

36. Leveraging U11 Knockout Mice to Study the Transcriptomic Consequences of Minor Spliceosome Inhibition in the Developing Limb and Spermatogenesis

Taveena Konakanchi, Physiology and Neurobiology

Advisor: Rahul Kanadia, Associate Professor, Physiology and Neurobiology

37. Investigating the Effects of KrasG12D Signaling on Cortical Progenitor Proliferation

Srihitha Mitta, Biomedical Engineering

Advisor: Rahul Kanadia, Associate Professor, Physiology and Neurobiology

38. Identification of Thermosensory and Hygrosensory Receptors Involved in Food-Seeking Behavior in Drosophila

Rebecca O'Connor, Physiology and Neurobiology & Psychological Sciences

Advisor: Karen Menuz, Associate Professor, Physiology and Neurobiology

39. Assessing Cell Death in Drosophila Olfactory Neurons Across Tau Knockout and Knock-In Mutants

David Tolmach, Molecular and Cell Biology & Human Development and Family Sciences

Advisor: Karen Menuz, Associate Professor, Physiology and Neurobiology

40. Contribution of Adult Hippocampal Neurogenesis to Fear Generalization and Discrimination

Aditi Malpure, Molecular and Cell Biology

Advisor: Sebnem Tuncdemir, Assistant Professor, Neuroscience

41. Dissecting the Hippocampal Inputs Contributing to Aversive Context Generalization

Brady Cheneski, Physiology and Neurobiology & Molecular and Cell Biology
Advisor: Sebnem Tuncdemir, Assistant Professor, Neuroscience

42. Spine Apparatus Density Across Brain Regions Involved in Fear Learning

Linnea Avola, Biological Sciences
Advisor: Linnaea Ostroff, Associate Professor, Physiology and Neurobiology

43. The Anatomical Characterization of Prefrontal Corticothalamic Neurons Targeting the Nucleus Reuniens and Mediodorsal Thalamus

Ademide Ogunsina, Molecular and Cell Biology
Advisor: Timothy Spellman, Assistant Professor, Neuroscience

44. Parental Impact on Chromosome Organization in Drosophila

Peter Fatzinger, Molecular and Cell Biology
Advisor: Jelena Erceg, Assistant Professor, Molecular and Cell Biology

45. Subcellular Distribution of P2X4 Receptors after Ischemic Stroke

Nitya Tarala, Molecular and Cell Biology
Advisor: Rajkumar Verma, Assistant Professor, Neuroscience

46. Processing Bodies Inhibit the Non-Canonical Inflammasome

Jack Wang, Allied Health Sciences
Advisor: Yanlin Wang, Professor, Medicine
Advisor: Penghua Wang, Associate Professor, Immunology

47. Sunrise, Sunset: How the Gut Microbiome Responds to Light

Andreana DeCarlo, Biomedical Engineering
Advisor: Yanjiao Zhou, Associate Professor, Medicine

48. Genetic Mapping of a Novel Tumor Suppressor Gene Mutation

Temoor Shah, Physiology and Neurobiology
Advisor: Jianzhong Yu, Associate Professor, Physiology and Neurobiology

49. Investigation of Anesthetic-induced Mortality in a Mouse Model of Rett Syndrome

Alexandra Salem, Structural Biology and Biophysics
Advisor: Daniel Mulkey, Professor, Physiology and Neurobiology

50. Conditional Loss of Hox11 Function in Synovial Joint Progenitors Does Not Fully Recapitulate Global Loss of Function

Ruupala Kalaiarasu, Molecular and Cell Biology

Advisor: Danielle Rux, Assistant Professor, Orthopedic Surgery

51. Disease Responses in a Human Osteoarthritis Ex Vivo Model

Akshaj Ganta, Physiology and Neurobiology

Advisor: Caroline Dealy, Professor, Orthodontics, Biomedical Engineering, Orthopedic Surgery & Cell Biology

52. Associations between Muscle-Specific Function and Echo Intensity, and the UConn Senescence-Associated Secretory Phenotype (SASP)

Aaditya Jain, Molecular and Cell Biology & Healthcare Management

Advisor: Jacob Earp, Assistant Professor, Kinesiology

53. No Title Provided

Christian Thompson, Physiology and Neurobiology

Advisor: Spencer Nyholm, Professor, Molecular and Cell Biology

54. Acetyl-CoA synthetase (ACS) in the Human-associated Methanogen Methanobrevibacter smithii

Zara Tariq, Molecular and Cell Biology

Advisor: Michel Geovanni Santiago-Martinez, Assistant Professor, Molecular and Cell Biology

55. The Integration Gap: A Connecticut Audit of AI-Enabled Supports for Neurodivergent Students

Sophia Gomez Reynoso, Computer Science

Troy Murphy, Computer Science

Advisor: Lina Kloub, Assistant Professor in Residence, School of Computing

56. Looking Into Brain to Muscle Connection by Studying Motor Control Using Transcranial Magnetic Stimulation (TMS)

Jasmine Decossard, Physiology and Neurobiology

Advisor: Nabin Koirala, Facility Scientist, Center for Open Research Resources and Equipment

57. Molecular Validation of a KLF2 Overexpression Plasmid for Functional Assays

Annice Proud, Molecular and Cell Biology

Advisor: Guangfu Li, Professor, Surgery

58. The Genetic Basis of Floral Trait Variation in *Mimulus*

Julia Johnson, Ecology and Evolutionary Biology

Advisor: Yaowu Yuan, Professor, Ecology and Evolutionary Biology

Advisor: Amy LaFountain, Assistant Research Professor, Ecology and Evolutionary Biology

59. Housewarming Gifts - *Candidatus Endoriftia persephonae* & the Type I secretion system

Andrew Deierlein, Molecular and Cell Biology & Pathobiology

Advisor: Jill Wegrzyn, Associate Professor, Ecology and Evolutionary Biology

Advisor: Rachel O'Neill, Distinguished Professor, Molecular and Cell Biology

60. A Day at the American Beech: Molecular Mechanisms of Resistance in an Iconic North American Tree

Tyler Cocchiola, Ecology and Evolutionary Biology

Avery DeSilva, Ecology and Evolutionary Biology

Nicholas Hancox, Molecular and Cell Biology

Anastasia Serating, Plant Sciences

Jenna Kent, Ecology and Evolutionary Biology

Peyton Durant, Molecular and Cell Biology

Deirdre McCrohan, Biological Sciences

Advisor: Jill Wegrzyn, Associate Professor, Ecology and Evolutionary Biology

Advisor: Rachel O'Neill, Distinguished Professor, Molecular and Cell Biology

61. Multipolar Mitosis as a Self-Correction Mechanism for Polyploidy in Pre-implantation Mouse Embryos

Klaudia Bielski, Pathobiology

Advisor: Xiuchun Tian, Professor, Animal Science

62. Breed-Specific Susceptibility to Ringworm in Dairy Cattle: A Comparative Study of Holstein and Jersey Heifers

Claire Zess, Animal Science

Advisor: Breno Fragomeni, Associate Professor, Animal Science

63. An Analysis of Bacterial Localization within the Gut Microbiome of *Mytilus edulis* using Scanning Electron Microscopy following Antibiotic Exposure

Reyes Umanson Jr, Marine Sciences

Advisor: J. Evan Ward, Professor, Marine Sciences

64. SAXOPHONE: Developing a Field Detection Device for Harmful Algal Blooms

Sabina Csak, Chemical Engineering

Sankalp Borah, Molecular and Cell Biology

Sabrina Newenham, Molecular and Cell Biology

Santino Siccone, Pathobiology

Advisor: Kate Castellano, Assistant Research Professor, Systems Genomics Institute

65. Insight into Advanced Glycated End Products and their Effects on Tropoelastin

Anshuma Salvaji, Physiology and Neurobiology

Advisor: Anna Tarakanova, Associate Professor, School of Mechanical, Aerospace, and Manufacturing Engineering

Advisor: Metehan Cam, Postdoctoral Research Associate, Institute for Collaboration on Health, Intervention, and Policy (InCHIP)

66. Adhesion and Liquid Diffusion in Engineered Porous Skin-Analogs

Thu Do, Biomedical Engineering

Advisor: Patrick Kumavor, Associate Professor in Residence, Biomedical Engineering

67. Nanomedicine Research for Intra-Articular Cell Delivery Therapies

Claudia Huang, Biomedical Engineering

Advisor: Yupeng Chen, Associate Professor, Biomedical Engineering

68. Developing NLS-based Polymeric Nanoparticles for Enhanced Nuclear Delivery

Mahathi Veluri, Molecular and Cell Biology

Advisor: Raman Bahal, Associate Professor, Pharmaceutical Sciences

69. Targeting Translesion Synthesis Polymerases to Overcome Gemcitabine Resistance in Breast Cancer

Minji Kim, Pharmacy Studies

Advisor: Hunmin Jung, Assistant Professor, Pharmaceutical Sciences

70. Optimization of Liposomal Multidrug Co-encapsulation of Paclitaxel and Docetaxel Through Continuous Manufacturing

Ian Metcalfe, Physiology and Neurobiology

Advisor: Diane Burgess, Distinguished Professor, Pharmaceutical Sciences

71. DNA Strand Breaks by Small Molecules: From Genomic Hazard to Therapeutic Strategy

Clerin John, Molecular and Cell Biology & IMJR: Community Health and Social Inequalities

Advisor: Raman Bahal, Associate Professor, Pharmaceutical Sciences

Advisor: David Daggett, Associate Professor in Residence, Molecular and Cell Biology

72. Synergistic Enhancement of Enzyme Stability Using Crowding Molecules in Nanobioreactors

Divine Adekoya, Chemical Engineering

Advisor: Eugene Pinkhassik, Associate Professor, Chemistry

73. Alpha LogD: Leveraging MS Compatibility for Optimized LogD Measurements

Leo Goetz, Chemistry

Advisor: Gaël Ung, Associate Professor, Chemistry

Advisor: James Bradow, Senior Principal Scientist, Pfizer Inc.

Advisor: Gilles Goetz, Principal Scientist, Pfizer Inc.

74. Tuning Magnetic Sensitivity of Molecular Qubits via Solid-State Engineering

Isabella Bruzzese, Mathematics-Physics

Advisor: Tomoyasu Mani, Associate Professor, Chemistry

75. Machine-Learning Analysis of Reaction-Diffusion-Based Pigmentation Patterns in Monkeyflowers (*Mimulus*)

Reesha Patel, Statistical Data Science

Advisor: Michael Blinov, Associate Professor, Center for Cell Analysis and Modeling

76. Target and Untargeted Analysis of Per- and Polyfluoroalkyl Substances (PFAS) in Medical Equipment

Isabella Naso, Chemistry

Melanie Khalfin, Molecular and Cell Biology

Advisor: Anthony Provas, Organics Laboratory Manager and Research Professor, Center for Environmental Sciences and Engineering

77. Synthesis of Colloidal Gold Nanoparticles for Applications in Chemical Sensor Arrays

Amira Veldman-Wilson, Chemistry

Advisor: Jing Zhao, Professor, Chemistry

78. Photopharmacological Control of Store-Operated Calcium Entry in Jurkat-Lucia NFAT Reporter T Cells Using Photoswitchable ML-9 Derivatives

José Matute Gálvez, Molecular and Cell Biology, Allied Health Sciences, & IMJR: Biochemical Systems in Health and Disease

Advisor: Michael Kienzler, Assistant Professor, Chemistry

79. Electrocatalytic Oxidative Amidation of Aldehydes for the Synthesis of N-acyl Azoles

Ashly Gasior, Chemistry & Physics

Advisor: Nicholas Leadbeater, Professor, Chemistry

80. Provenance and Timing of Pleistocene Detrital Carbonate Beds in IODP Sites U1603 and U1604 on the NW Greenland Margin: Implications for Ice Sheet Dynamics in Baffin Bay

Elias Utterback, Earth Sciences

Advisor: Tracy Frank, Professor, Earth Sciences

81. Nanoindentation Study on Mechanical Hysteresis of Nanoporous Amorphous Carbon

Cydney Sottile, Materials Science and Engineering

Advisor: Seok-Woo Lee, Associate Professor, Materials Science and Engineering

82. Nanoindentation Study of Laser-Glazed Supersaturated AlCo Alloys

Reid Morrow, Materials Science and Engineering

Advisor: Seok-Woo Lee, Associate Professor, Materials Science and Engineering

83. Electronic Ceramic Material Synthesis for Battery Applications

Maya Grabowski, Management and Engineering for Manufacturing

Advisor: Maruf Ahmed, Graduate Student, Material Science and Engineering

Special Thanks

The Office of Undergraduate Research wishes to thank the deans of the represented schools and colleges, the Office of the Provost, the Office of the Vice President for Research, and the generous donors to Enrichment Programs and to the Honors Program for their support of undergraduate research. In addition, we thank the following individuals for their support:

Radenka Maric, *President, University of Connecticut*

Pamir Alpay, *Interim Provost and Executive Vice President for Academic Affairs*

Jennifer Lease Butts, *Associate Vice Provost, Enrichment Programs and Director, Honors Program*

Student Volunteers for the Spring Frontiers Poster Exhibition

Office of Undergraduate Research Staff

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Melissa Berkey, *Assistant Director*

Jodi Eskin, *Program Administrator and Advisor*

Emily Schwab, *BOLD Director and Advisor*

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Andrei Abarientos '26 (CAHNR)

Julia Armington '27 (ENG)

Breanna Bonner '26 (CLAS)

Hansuja Chaurasia '26 (CAHNR)

Hailey DeWalt '26 (CLAS)

Ashly Gasior '27 (CLAS)

Olivia Joyce '27 (CLAS)

Ruupala Kalaiarasu '27 (CLAS)

José Matute Gálvez '26 (CLAS,
CAHNR)

Malak Nechnach '26 (CLAS)

Brielle Pierre Philippe '27 (CLAS)

Annette St. Jacques '26 (CLAS)

Alana Wolfson '27 (CAHNR)

Alphabetical Listing of Presenters with Poster Numbers

S1 denotes a Session 1 presentation – Wednesday, April 15 at 2:00 p.m.

S2 denotes a Session 2 presentation – Wednesday, April 15 at 4:00 p.m.

S3 denotes a Session 3 presentation – Wednesday, April 15 at 6:00 p.m.

- Abarientos, Chris Andrei – 59 (S2)
Adekoya, Divine – 72 (S3)
Agrawal, Anika – 30 (S1)
Agyemang, Joel – 35 (S2)
Amodeo, Olivia – 39 (S1)
Amoudi, Aya – 64 (S2)
Amrani, Manal – 75 (S2)
Anderson, Ava – 40 (S2)
Anikeev, Katerina – 17 (S1)
Ashton, Briana – 29 (S3)
Avola, Linnea – 42 (S3)
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